

GIMMEL'FARB, A.

Mechanization of one-story and basement warehouses. Sov.  
torg. 33 no.3:52-54 Mr '60. (MIRA 13:6)

1. Glavnyy arkhitekto Giprokholoda.  
(Warehouses)

GIDMEL'FARS, A.

Cold storage warehouses with air-conditioned transportations systems.  
Sov. org. 34 no.11,53-55 N '60. (MIRA 13:11)  
(Cold storage warehouses)

GIMMEL'FARB, A. A. Cand Tech Sci — (diss) "Questions of the Controlling  
Role of Slag in Blast Furnaces," Dnepropetrovsk, 1960, 17 pp, 150 copies  
(Institute of Ferrous Metallurgy, AS USSR) (KL, 47/60, 102)

GIMBEL'FARB, A.A.

Effect of the change of primary slag composition on the  
temperature of the hearth and blast furnace performance.  
Izv.vys.ucheb.zav.; chern.met. no.6:15-29 '60.  
(MIRA 13:7)

1. Dnepropetrovskiy metallurgicheskiy institut.  
(Blast furnaces) (Slag)

**GIMMEL, FARB, A.A.**

Reduction of the sulfur-content in cast iron. Metallurg 5 no.5:6-7  
My '60. (MIRA 14:3)

1. Dnepropetrovskiy metallurgicheskiy institut.  
(Cast iron—Metallurgy)  
(Desulfuration)

GIMGEL'FARB, A.A.

Determining the optimum composition of primary slag according to crystallization data in the system  $\text{CaO-FeO-SiO}_2$ . Izv. vys. ucheb. zav.; Chern. met. no.10:31-39 '60. (MIRA 13:11)

1. Dnepropetrovskiy metallurgicheskiy institut.  
(Slag--Analysis) (Phase rule and equilibrium)

GOTIB, A.D.; GONCHAROV, P.G.; LEVCHENKO, V.Ye.; GIMMEL'FARB, A.A.; PEVTSOV,  
V.P.; LAPA, A.M.

Controlling the thermal conditions of a blast furnace by the com-  
position of the blast furnace gas. Iav.vys.ucheb.zav.; chern.met.  
no.4:31-37 '61. (MIRA 14:4)

1. Dnepropetrovskiy metallurgicheskiy institut i Zavod imeni  
Petrovskogo.

(Blast furnaces) (Gases---Analysis)

LEVCHENKO, V.Ye.; GIMMEL'FARB, A.A.

Homogenousness of the charge mixture in its lump size and gas  
flow utilization. Izv. vys. ucheb. zav.; chern. met. 5 no.3:  
30-37 '62. (MIRA 15:5)

1. Dnepropetrovskiy metallurgicheskiy institut.  
(Blast furnaces--Equipment and supplies)

LEVCENKO, V.E. [Levchenko, V.Ye.]; GHIMMELFARB, A.A. [Gimmel'farb, A.A.]

Homogeneity of the granulation of furnace loads and utilization  
of gas flux. Analele metalurgie 16 no.4:27-35 Q-D '62.

YEFIMENKO, G.G., kand. tekhn. nauk; GIMMEL'FARB, A.A., kand. tekhn. nauk;  
Prinimali uchastiye: POLTAVETS, V.V., inzh.; GRISHKO, V.A., inzh.;  
NEMCHENKO, S.Z., inzh.; OSTAPENKO, V.A., tekhnik; POBUDINSKIY, L.I.,  
tekhnik; KATSMAN, V.Kh., tekhnik; KARMAZIN, A.G., tekhnik

Regulating blast furnace operations by fluctuations of gas pressure  
and the distribution of materials in the hearth bottom. Stal' 22  
no.10:876-880 0'62. (MIRA 15:10)

(Blast furnaces)

KRASAVTSEV, N.I., kand.tekhn.nauk, red.; GIMMEL'FARB, A.A., kand.  
tekhn. nauk, red.; GONCHAROVA, L.A., Fed. IZD-va;  
ISLENT'YEVA, P.G., tekhn. red.

[Acceleration of blast furnace smelting] Forsirovanie  
domennoi plavki; trudy. Moskva, Metallurgisdat, 1963.  
386 p. (MIRA 16:8)

1. Nauchnaya konferentsiya po teoreticheskim voprosam me-  
tallurgii chuguna. Dnepropetrovsk, 1961.  
(Blast furnaces)

GIMMEL'FAIB, A.A., kand.tokhn.nauk; L'PA, A.M., inzh.

Effect of the reduction in the consumption of coke on conditions of  
gas dynamics in blast furnaces. Stal' 23 no.7:593-597 JI '63.  
(MIRA 16:9)

1. Dnepropetrovskiy metallurgicheskiy institut.  
(Blast furnaces) (Gas dynamics)

PEVTSOV, V.P., kand.tekhn.nauk; Potebnya, Yu.M., kand.tekhn.nauk; GIMMEL'FARB,  
A.A., kand.tekhn.nauk

Radiometric investigation of the tuyere zone in blast furnaces. Stal'  
23 no.7:599-600 J1 '63. (MIRA 16:9)

1. Dnepropetrovskiy metallurgicheskiy institut.  
(Blast furnaces) (Radiometry)

GOTLIB, A.D.; GIMMEL'FARB, A.A.; LAPA, A.M.

Improving the algorithm for regulating the heat conditions in a  
blast furnace. Izv. vys. ucheb. zav.; chern. met. 8 no.10:  
22-30 '65. (MIRA 18:9)

1. Dnepropetrovskiy metallurgicheskiy institut.

SOURCE CODE: UR/0133/65/000/007/0585/0589

AUTHOR: Gotlib, A. D. (Doctor of technical sciences); Gizmal'carb, A. A. (Candidate of technical sciences); Yefimenko, G. G. (Candidate of technical sciences); Lapa, A. M. (Candidate of technical sciences); Polovchenko, I. G. (Candidate of technical sciences); Grishko, V. A. (Engineer); Chachuro, A. N. (Engineer); Kharchenko, N. M. (Engineer)

ORG: Dnepropetrovsk Metallurgical Institute (Dnepropetrovskiy metallurgicheskiy institut); Plant im. Dzerzhinskiy (Zavod)

TITLE: Automatic control of the thermal state of a blast furnace

SOURCE: Stal', no. 7, 1965, 585-589

TOPIC TAGS: automatic control, blast furnace, algorithm, digital computer

ABSTRACT: The currently used methods for controlling the thermal state of a blast furnace have considerable deficiencies. There is considerable delay in receipt of data for control changes. Control should be performed directly on the change in thermal and reductive work of the gases, depending on their distribution in the charge and their movement through it. Theoretical principles for thermal control by composition of flue gas have been developed: a) minimum usage of coke for smelting cast iron of a given composition under given conditions of charge material and melting is defined, b) these parameters of the process are directly maintained at a level necessary to produce iron with minimum deviation from the given composition when all heat reserves of the process are used.

Cars 1/2

62  
56  
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ACC NR: AP6012947

On the basis of these considerations, an algorithm for control of the thermal state of a furnace was developed by the Lisichan Scientific Research Institute for Computers for use in the "Sovetchik Master" (SM-2) computer at blast furnace A of the plant imeni Dzerzhinskiy. This device is a digital computer which performs the mathematical and logical processing of input information on the basis of this algorithm. 7

During an 18-day trial period in May and a 36-day trial period in October-November, 1963, the computer recommended 108 changes in coke quantity and 144 changes in blast temperature. The results were positive; the thermal state of the furnace was mainly disrupted only when the recommendations were not fulfilled and during changes in loading without recommendation by the computer.

The recommendation control considerably increased consistency in output composition. Coke usage was decreased by 2.5%. The algorithm can be used only when the furnace is under regular use. Engineer S. Z. Nemchenko, Engineer A. S. Skorobogatov, Engineer M. I. Obuvain, Engineer T. I. Slanchinskaya, Engineer A. M. Yunchik, Engineer Yu. M. Samarets, and Engineer D. S. Kalashnikov participated in the work. Orig. art. has: 3 figures and 2 tables. [JPRS]

SUB CODE: 33, 09 / SUBM DATE: none / ORIG REF: 004

Card 2/2 OK

GIMMEL'FARB, A.A., kand. tekhn. nauk; LIKHORADOV, A.P.; ZHEMBUS, M.D.;  
ZHAK, A.M.

Increasing the strength of fluxed sinter. Met. i gornorud.  
prom. no.6:7-11 N-D '65. (MIRA 18:12)

SOV/163-58-1-41/53

**AUTHORS:** Gimmel'farb, A. I., Yelyutina, V. I., Mozzhukhin, Ye. I.

**TITLE:** Some Data on the Pseudo-Binary Phase Diagrams of NiAl and TiC  
(Nekotoryye dannyye k psevdobinarnoy diagramme sostoyaniya NiAl-TiC)

**PERIODICAL:** Nauchnyye doklady vysshey shkoly. Metallurgiya, 1958, Nr 1,  
pp 222-225 (USSR)

**ABSTRACT:** In special investigations the initial and end temperatures of the melt of alloys containing up to 50% TiC were determined. The alloys of NiAl and TiC were produced by the method of powder metallurgy. The results obtained made it possible to represent liquidus and solidus lines in NiAl and TiC. The radiographic analyses of the samples showed that all alloys investigated consisted of two phases. No solubility of TiC in NiAl was found. The metallographical analyses proved the presence of the bi-phase NiAl and TiC in these alloys. To produce the liquid phase in the alloys NiAl and TiC at the sintering temperature the sintering has to be carried out at a higher temperature.

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SOV/163-58-1-41/53

Some Data on the Pseudo-Binary Phase Diagrams of NiAl and TiC

To produce alloys of the system TiC and NiAl of greater strength and density a sintering temperature higher than 2000°C is necessary.

The eutectic temperature of the system TiC-NiAl was determined (1580°C).

There are 2 figures, 1 table, and 4 references, 1 of which is Soviet.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: October 1, 1957

GIMMEL'BARB, A.I., inzh.; CHASOVITIN, O.I., inzh.

Preparing pig iron in rotary furnaces and its use in  
the blast-furnace process. Stal' 20 no.8:691-694  
Ag '60. (MIRA 13:7)

1. Orsko-Khalilovskiy metallurgicheskiy kombinat.  
(Blast furnaces--Equipment and supplies)  
(Ore dressing--Equipment and supplies)

KOLESANOV, F.F.; SHUMAKOV, N.S.; FEDORENKO, N.V.; SHUMAKOV, L.G.;  
GIMMEL'FARB, A.I.

Dressing of Akkermanovka ores and sintering of the  
concentrates produced. [Sbor. trud.] Nauch.-issl.  
inst.met. no.4:44-53 '61. (MIRA 15:11)

1. Nauchno-issledovatel'skiy institut metallurgii  
(for Kolesanov, Shumakov, Fedorenko). 2. Orsko-Khalilovskiy  
metallurgicheskiy kombinat (for Shumakov, Gimmel'farb).  
(Akkermanovka region—Iron ores)  
(Ore dressing) (Sintering)

GIMMELFACH, I.I.; ...

production of ...  
tech.-ekon. Inform. Gor. ...  
17 no. 1:92-94 ...

GIMMEL'FARB, A.L., aspirant

Fracture dislocations of the shoulder joint and their treatment.  
Kaz.med.zhur., no.5:27-30 S-0 '62. (MIRA 16:4)

1. Kafedra ortopedii i travmatologii (zav. - prof. L.I. Shulutko) Kazanskogo gosudarstvennogo instituta dlya vrachey imeni V.I.Lenina na baze Kazanskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - kand.med.nauk U.Ya.Bogdanovich).

(SHOULDER JOINT--DISLOCATIONS)

6 / V  
KAN, Saveliy Nakhimovich; ROSTOVTSSEV, G.G., doktor tekhnicheskikh nauk, professor, retsensent; GIMMEL'FAEB, A.L., kandidat tekhnicheskikh nauk, dotsent, redaktor; SUVOROVA, I.A., redaktor; ZUDAKIN, I.M. tekhnicheskii redaktor.

[Structural strength of the airplane] Prochnost' samoleta. Izd. 4-oe, Moskva, Gos.izd-vo oboronnoi promyshlennosti, 1955. 285 p. (MLRA 8:11)  
(Airplanes--Design and construction)

GIMMEL'FARB, A.L.

Functional spint for the lower extremity. Ortop.travn. i protez.  
20 no.7:52-54 J1 '59. (MIRA 12:10)

1. Iz travmatologicheskogo otdeleniya (zav. - M.N.Nikitin)  
Stalinskoy (Kemerovskoy obl.) gorodskoy klinicheskoy bol'-  
nitsy No.1 (glavnyy vrach - S.F.Kirin).  
(SPLINTS)

1(0)

PHASE I BOOK EXPLOITATION SOV/2835

Moscow. Aviatsionnyy institut im. Sergo Ordzhonikidze

Voprosy proyektirovaniya samoletov; sbornik statey (Problems in Aircraft Designing; Collection of Articles) Moscow, Oborongiz, 1959. 74 p. (Series: Its: Trudy, vyp. 108)  
Errata slip inserted. 3,100 copies printed.

Sponsoring Agency: Ministerstvo vysshego obrazovaniya SSSR.

Ed.: A.L. Gimmel'farb, Candidate of Technical Sciences, Docent; Ed. of Publishing House: K. I. Grigorash; Tech. Ed.: L. A. Pukhlikov; Managing Ed.: A.S. Zaymovskaya, Engineer.

PURPOSE: This book is intended for personnel in the design offices of aircraft plants. It may also be used by students at aviation institutes.

COVERAGE: This collection of articles describes the results of theoretical and experimental investigation connected with the determination, during the designing stage, of basic aircraft and wing parameters, total weight of aircraft and its components, type of engines and the amount of fuel. Problems of

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Problems in Aircraft Designing (Cont.)

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aircraft strength and stability are also considered. No personalities are mentioned. References appear in the text.

TABLE OF CONTENTS:

Preface	3
Fomin, N.A. [Candidate of Technical Sciences], Methods for Determining the Basic Parameters of Aircraft and Aircraft Wings	5
The author determines basic parameters of aircraft and selects from them the most important. These are: Total weight of aircraft, wing-surface design and weight, and the necessary thrust for starting.	
Gimmel'farb, A.L. [Candidate of Technical Sciences]. Calculating Necessary Fuel Supply and Total Weight of Aircraft During the Designing Stage	37
In this article the author deducts simple weight formulas based on only two static coefficients:	

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Problems in Aircraft Designing (Cont.)

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weight efficiency and fuel consumption.

Padeyev, N.N. [Candidate of Technical Science]. Comparative Evaluation of Aircraft Engines According to Their Weight in Flight 41

A method is given to help in the selection of an engine for a given aircraft and for determined régimes and flight distances

Zhevagina, A.A. [Candidate of Technical Sciences]. Determination of Critical Stresses in Laminar Compressed Panels With Veneer Covering 52

Results of an investigation show that sufficient support is formed for a thin veneer lining by a filling with the specific weight of  $0.065 \pm 0.1 \text{ gr/cm}^3$ . With this filling the panel behaves as a homogeneous body until the moment of a general loss of rigidity.

Voyt, Ye.S. [Candidate of Technical Sciences]. Stability of a Crossed-Bar Assembly Which Has Been Compressed in One Direction 59

The author is concerned with the plane and curved Card 3/4

Problems in Aircraft Designing (Cont.)

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reinforced panels used in ship and aircraft construction. He analyses the influence of separate factors on the stability of the panels and indicates practical methods of choosing, in the first approximation, the most convenient disposition of basic elements of the panel.

AVAILABLE: Library of Congress

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S/535/61/000/138/008/008  
E191/E135

AUTHOR: Gimmel'farb, A.L., Candidate of Technical Sciences  
TITLE: The analysis of two-flange thin walled stringers for bending and shear stresses under flexure  
SOURCE: Moscow. Aviatsionnyy institut. Trudy. no.138. 1961. Metody priblizhennykh raschetov i vybora parametrov pri proyektirovanii samoletov. 93-99.

TEXT: The significance of the assumptions made in the design of I-beams is examined. Usually in project work the effect of the web is neglected. Beyond some value of the ratio of web thickness to flange width, the contribution of the web becomes significant. Introducing a more exact expression for the moment of inertia of the beam it is shown from a graph that, when the flange thickness is less than 10% of the beam height, the web takes a significant part in resisting the bending moment beyond a web thickness of 10% of the flange width. In aircraft structures, where flange thicknesses are not less than 5% of the beam height, web thicknesses do not exceed 2% of the flange width and the bending moment carried by the web does not exceed 5%. Further analysis of I-beams

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The analysis of two-flange thin ....

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proceeds to ignore the contribution of the web. The effect of the assumption that stress is carried uniformly by the flange is examined. With a flange thickness of 10% of the beam height, the error in the stress computed by the approximate assumption is 10%. A simplified second approximation is given ensuring 1% accuracy up to a flange thickness of 40% of the beam height. This approximation is used in a simple formula for the required beam width containing a factor whose numerical values are given in a table as a function of the relative flange thickness. The shear stress is often assumed to be carried entirely by the web along which it is uniformly distributed. The error of this approach is computed and plotted in a graph as a function of the relative web thickness. At a flange thickness of 10% of the beam height and a web thickness of 2% of the beam width, the shear stress error is 10% but rises to 18% when the web thickness is 10%. A second approximation formula is given which ensures an accuracy better than 1% at flange thicknesses between 10 and 40% of the beam height and web thickness between 1 and 3% of the beam width. There are 7 figures and 1 table.

Card 2/2

**POVIN, Nikolay Aleksandrovich; KOMAROV, A.A., kand.tekhn.nauk, dotsent, retsentsent; PETROV, M.N., doktor tekhn.nauk, prof., retsentsent; GIMMEL'FARB, A.L., kand.tekhn.nauk, dotsent, red.; TUBYANSKAYA, F.G., izdat.red.; ROZHIN, V.P., tekhn.red.**

[Design of airplanes. Determination of weight, arrangement, selection of the aerodynamic design and basic parameters]  
Proektirovanie samoletov. Opredelenie vesa. Komponovka.  
Vybor skhemy i osnovnykh parametrov. Moskva, Gos.nauchno-  
tekhn.isd-vo Oborongis, 1961. 361 p. (MIRA 14:12)  
(Air planes--Design and construction)

GIMMEL'FARB, A.Ya., inzh.

Selecting the layouts for cold-storage plants with mechanized loading operations. Khol. tekhn. 38 no.4:42-46 J1-Ag '61.  
(MIRA 15:1)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektno-eksperimental'nyy institut promyshlennykh zdaniy i sooruzheniy Akademii stroitel'stva i arkhitektury SSSR.  
(Cold storage warehouses)

GIMEL'PARB, A.Ya., arkhitekto

One-story cold storage distributing point. Prom.stroi. 39  
no.6:27-30 '61. (MIRA 14:7)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektno-  
eksperimental'nyy institut promyshlennykh zdaniy i sooruzheniy.  
(Cold storage warehouses)

GIMMEL'FARB, A.Ya., arkhitekto

Standardization of storage warehouses of food and light industry.  
Prom. stroi. 40 no.7:40-44 '62. (MIRA 15:7)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektno-eksperimental'nyy  
institut promyshlennykh zdaniy i sooruzheniy Akademii stroitel'stva  
i arkhitektury SSSR.  
(Warehouses—Standards)

GIMMEL'FARB, A. 1/9

Location of warehouses in cities. Sov. tovg. 36 no.8:9-13  
Ag '63. (MIRA 16:11)

1. Glavnyy arkhitektoy proyektov Tsentral'nogo nauchno-  
issledovatel'skiy i proyektno-eksperimental'nyy institut  
promyshlennykh zdaniy i sooruzheniy.

GIMMEL'FARB, A.Ya., arkhitektor

Cooperative storehouse centers must be built. Prom. stroi.  
41 no.11:6-9 N '63. (MIRA 17:2)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektno-eksperimental'nyy institut promyshlennykh zdaniy i sooruzheniy.

GIMMEL'FARB, B. [Himmelfarb, B.]

Noctilucent clouds. Astron. tsir. no. 221:14-15 Ap '61.  
(MIRA 14:11)

1. Arkhangel'skiy pedagogicheskiy institut.  
(Clouds)

GIMMEL'FAIS, B.M.; TUSHINA, A.M.; SMIRNOV, A.I.; MAYMLSTOVA, R.I.

Geology and ore types in the Dzhanly-Tas phosphorite deposit.  
Trudy GIGKHS no.7:71-131 '62. (MIRA 16:5)  
(Kara-Tau region--Phosphorites) (Kara-Tau region--Ore deposits)

GIMMEL'FARB, B. M., doktor geologo-mineralogicheskikh nauk

Raw materials for the fertiliser industry. Zhur. VKHO 7 no.5:  
495-499 '62. (MIRA 15:10)

(Fertiliser industry)

PROCESSES AND PROPERTIES INDEX

CA  
ZIMMELFAR'S, G. H.

Phosphorite deposits at Ribbin (Prusa Government). J. M. KURMAN AND B. M. HANSEN. *Mineralog. Surv. No. 9, 1199-200(1930)*. Geological description of the deposits, results of concn. exps. and chem. analyses are given. U. S. D.

U. S. GEOLOGICAL SURVEY LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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GIMMEL'FARB, B. M.

Syr'evaia baza tukovoi promyshlennosit SSSR. Moskva, Gl. red. gorno-top-  
livnoi i geol.-razvedochnoi lit-ry, 1937. 249 p. (TSentral'naia komissia po zapasma  
poleznykhiskopaenykh.)

"Spisoi literatury": p. 241-(248)

DLC: TN 85.G56

SO: LC, Soviet Geography, Part I, 1951, Uncl.



18

Ch

Phosphorites of U. S. S. R. B. M. Gimmel'yarb and N. A. Abanas'ev. *Nesoch. Inst. Tekhnichesk. i Tsekh. Inzhiniringa* 1919-39, 34-33; *Khim. Referat. Zhur.* 1940, No. 6, 10-7. -- The properties of phosphorites of the Kirov, Moscow, Aktyubin and other regions of U. S. S. R. are described. The Kara-Tau phosphorites (Southern Kazakhstan) are of the greatest importance. Their estimated reserves are 315 million tons, with a productivity of 25 tons/sq. m. The av. P<sub>2</sub>O<sub>5</sub> content is 30% and R<sub>2</sub>O<sub>3</sub> 2.0-2.5%. The cons. production of phosphorites rose to 877,000 tons in 1937, from 14 active mines, from 29,010 tons in 1922-23. W. R. Henn

418-11A METALLURGICAL LITERATURE CLASSIFICATION

FROM SYMBOL	TO SYMBOL	FROM LETTER	TO LETTER
0	1	A	1
2	3	B	2
4	5	C	3
6	7	D	4
8	9	E	5
10	11	F	6
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96	97		49
98	99		50





GIMMEL' FAHB, B.M.

[What are phosphorites; where and how to find them] Chto takoe fosfority, gde i kak ikh iskat'. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geologii i okhrane nedr, 1954. 25 p. (MLRA 8:5)  
(Phosphorite)

USSR/ Geology

Card 1/A P.B. 22 - 32/45

Authors : Gimal'iani, E. M. and Merchanashvili, O. W.

Title : New data on the phosphatization of Upper Cretaceous deposits in Georgia

Periodical : Dok. AN SSSR 103/2, 291-293, Jul 11, 1955

Abstract : Geological data are presented on the phosphates discovered among the Upper Cretaceous deposits of Georgian SSR. Seven USSR references (1923-1948).

Institution : State Sci. Res. Inst. of Mining Chemical Raw Materials

Presented by : Academician N. M. Strakosy, February 9, 1955

GIMMELTARR, B.M.

DOLGOPOLOV, N.N.; ERZHUKOV, P.L., redaktor; BUSHINSKIY, G.I., redaktor;  
GIMMELTARR, B.M., redaktor; IVANOV, A.A., redaktor; STRAKHOV, N.M.,  
akademik, otvetstvennyy redaktor; PESENKO, I.A., redaktor; ASTROV,  
A.V., redaktor izdatel'stva; AUZAN, N.P., tekhnicheskiy redaktor

[Problems in the geology of agronomic minerals] Voprosy geologii  
agronomicheskikh rud. Moskva, 1956. 239 p. (MIRA 9:11)

1. Akademiya nauk SSSR. Otdeleniye geologo-geograficheskikh nauk  
(Geology, Economic) (Fertilizers and manures)

GIMDEL'FARB, B.M.; KREYTER, B.M., glavnyy red.; SHATALOV, Ye.T., zamestitel' glavnogo red.; YEROFIMYEV, B.N., red.; ZENKOV, D.A., red.; KRASNNIKOV, V.I., red.; NIFONTOV, R.V., red.; SMIRNOV, V.I., red.; KHRUSHCHOV, V.I., red.; YAKZHIN, A.A., red.; MARKOV, P.N., red.; VERSTAK, G.V., red.; AVNERKIYEVA, T.A., tekhn. red.

[Prospecting for phosphorite deposits] Razvedka mestorozhedenii fosforitov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane neдр. 1957. 65 p. (Metodicheskie ukazaniia po proizvodstvu geologo-rasvedochnykh работ, no.5). (MIRA 11:1)

(Phosphorites) (Prospecting)

GIMMEL'FARB, Boris Mikhaylovich (State Sci-Res Inst of Mining-Chem Raw  
Materials) awarded sci degree of Doc Geologo-Mineralogical Sci for the  
14 Nov 57 defense of dissertation: "Basic principles governing phos-  
phoric deposits in the USSR and their genetic classification" at the  
Council, Geological Inst, AS, USSR; Prot No 14, 31 May 58.

(b1V0, 11-58,18)

PUSTOVALOV, L.V.; SHRDYUCHENKO, D.P.; GIMCHEL'FARB, B.M.; KURMAN, I.M.

Aleksandr Vasil'evich Kazakov; biographical sketch. Trudy Inst.  
geol. nauk no.152:3-7 '57. (MLRA 10:9)  
(Kazakov, Aleksandr Vasil'evich, 1888-1950)

3(5) PHASE I BOOK EXPLOITATION 807/1886

On yedionnaya nachunaya sessiya po metallurgicheskima i prognoznyma kartam, Alma-Ata, 1956.

Materialy nauchoy sessii po metallogeneticheskima i prognoznyma kartam; doklady. (Materials Presented at the Scientific Session on Metallogenetic and Postulated Ore Occurrence Maps; Reports) Alma-Ata, Izd-vo AN Kazakhskoy SSR, 1958. 318 p. Errata slip inserted. 3,850 copies printed.

M. I. A. S. Popovskiy; Tech. Ed.: P. P. Alferova.

Intending Agencies: (1) Akademiya nauk SSSR, (2) Akademiya nauk Kazakhskoy SSR, Alma-Ata, (3) USSR, Ministerstvo geologii i obratnoy medr, (4) Kazakh SSR, Ministerstvo geologii i obratnoy medr.

PURPOSE: This book is intended for exploration geologists, mining engineers, and cartographers.

Materials Presented (Cont.) 807/1886

GOVERNANCE: This collection of reports was presented at the United Scientific Session on Metallurgy and Postulated Ore Occurrence Maps, organized by the Academy of Sciences in Alma-Ata, Kazakh SSR, 1958. The reports deal with the geology, metallogenic and ore occurrence maps as well as the methodology and techniques of correlating geophysical exploration data. These reports deal only with non-ferrous metals. Three other reports delivered at the conference but not included in this work were read by Ye. Ye. Zakharov, M. S. Shatalov, and Yu. K. Gortalskiy. References accompany each article.

TABLE OF CONTENTS:

Materials Presented (Cont.)	807/1886
Zhalinskij, G. B. [ZOM AN KazSSR]. Principles of Compiling the Postulated Occurrence Maps for Tin in Central Kazakhstan	148
Spirin, B. A. [Kaz IKS and Kaz GMI]. Technique of Compiling a Metallogenetic and Postulated Occurrence Map for the Non-ferrous Metals of Central Kazakhstan	165
Gumol'farb, B. M. [GICM]. Basic Principles for Compiling Postulated Occurrence Maps for Phosphates	183
Godlevskiy, M. N. [VSEMI]. Problems of Compiling the Metallogenetic Postulated Occurrence Map for the Northwest Part of Siberia Platform	199
Ivanov, A. A. [VSEMI]. Halogen Formations of the USSR and the Regularity of Distribution of the Principal Ore Deposits Related to Them	203
Rodervich, Ye. A., I. M. Tsvetov. [IGEM]. Large Scale Metallogenetic Mapping	212

GIMCEL'FARB, B.M.

Tectonic distribution of phospherite deposits in the U.S.S.R.  
Zakonen. razm. polezn. iskop..1:487-516 '58. (MIRA 12:3)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gerne-  
khimicheskogo syr'ya pri Gosudarstvennom Komitete Soveta Ministrov  
SSSR po khimii.

(Phospherites)

Dissertations. Branch of Geological-Geographical Sciences Jul.-Dec 1957  
Vest. Ak Nauk SSSR, No. 4, pp. 118-119, 1958.

At the Institute for the Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry the following dissertations were defended for the degree of a Candidate of Geological-Mineralogical Sciences:

GALDIN, N. Ye. - Peculiarities in the Structure of the Deposit of Belousovsk in the Altai.

SMOLIN, P. P. - Contact Processes of the Post-Jurassic Intrusions of the Aldan.

At the Geological Institute the following dissertations for the degree of a Doctor of Geological-Mineralogical Sciences were defended:

ASHANYAN, A. T. - Regional Geology of Armenia.

GIMMEL'FARB, B. M. - Essential Regularities of the Phosphorite Deposits of the USSR and Their Genetic Classification.

LUCHITSKIY, I. V. - Volcanism and Tectonics of the Devonian Depressions of the Minusinsk Bending of the Intermediate Mountains.

POGULYAYEV, D. I. - Geological Structure and Mineral Resources of the Smolensk Region.

At the Institute of Oceanology the following dissertations for degree of Cand. of Geographical Sciences were defended:

ARKHIPOVA, Ye. G. - Thermal Regime of the Caspian Sea.

UL'ST, V. G. - Morphology and Developmental History of the Field of Marine Accumulation in the Summit of the Gulf of Riga.

**AUTHORS:** Chepelevetskiy, M. L., Gimmel'farb, B. M., 20-119-1-36/52  
Kuperman, M. Ye., Krasil'nikova, Z. V.

**TITLE:** An Electron-Microscope Investigation of the Structure of Phosphorites From the Kara-Tau Basin (Elektronno-mikroskopi-cheskoye issledovaniye struktury fosforitov basseyna Kara-Tau)

**PERIODICAL:** Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 1, pp. 133-135 (USSR)

**ABSTRACT:** The phosphorites of this basin (deposits Ak-Say, Kok-su and Chulak-Tau) contain larger quantities of dolomite (mostly 10-18%), whereby the consumption of sulfuric acid per ton of assimilable  $P_2O_5$  in superphosphate increases. Thereby the quality of this fertilizer is impaired as well with regard to the assimilable  $P_2O_5$  as to its physical properties: it becomes hygroscopic and smeary. At present 2 methods of the enrichment of these phosphorites exist: flotation and the chemical method. By flotation it was possible to attain a concentrate with a highly reduced magnesium content (Ak-Say), whereas the phosphorites of the Chulak-Tau deposit still yield concentrates with an MgO-content of 1,5% and higher.

Card 1/3

An Electron-Microscope Investigation of the Structure of Phosphorites From the Kara-Tau Basin 20-119-1-36/52

These difficulties may be explained by the grain size of the phosphate substance of these phosphorites. The respective ores were inspite of a similar geological age and belonging to the same series of phosphorites intensively changed by a contact-metamorphism (nearness of a granite-intrusive), especially their phosphates were recrystallized. The structural peculiarities of the Chulak-Tau phosphorites were investigated under an electron-microscope. The structure of the phosphorites of the two remaining deposits were studied for comparison under an ordinary microscope. The characteristics of the Kara-Tau phosphorites are given in table 1. Polished sections of phosphorite samples were produced, impressions were made by the polystyrene-quartz and the collodium-quartz method and then etched, and again impressions made. The investigation showed that the size of the phosphate grains in all 5 samples from Chulak-Tau lies between 0,1 and 4,0 (figure 2). As the production of concentrates is due to the grain size in Chulak-Tau rendered difficult, the flotation shall be combined with a refinement by diluted acids, especially  $H_2SO_4$ . There are 2 figures, 1 table.

Card 2/3

An Electron-Microscope Investigation of the Structure of  
Phosphorites From the Kara-Tau Basin

20-119-1-36/52

ASSOCIATION: Nauchnyy institut po udobreniyam i insektofungisidam  
(Scientific Institute for Fertilizers and Insecticides).  
Gosudarstvennyy institut gornokhimicheskogo syr'ya  
(State Institute for Mining-Chemical Raw Materials)

PRESENTED: June 11, 1957, by S. I. Vol'fkovich, Member, Academy of  
Sciences, USSR

SUBMITTED: June 5, 1957

SEKRESHEVSKIY, A.I.; GIMMEL'FARB, B.M., nauchnyy red.; NEKRASOVA, M.B.,  
red.izd-va; IYANOVA, M.G., tekhn.red.

[Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia;  
spravochnik dlia geologov. Izd.2., perer. Moskva, Gos.nauchno-  
tekhn.izd-vo lit-ry po geologii i okhrane neдр. No.19. [Phosphate  
minerals; apatites and phosphorites] Fosfatnoe syr'e; apatity i  
fosfority. Nauchn.red. B.M.Gimmel'farb. 1959. 42 p.  
(MIRA 13:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mine-  
ral'nogo syr'ya.  
(Apatite) (Phosphorites)

GIMMEL'FARB, B.M.; IZRAILEVA, G.A., red.isd-va; BYKOVA, V.V., tekhn.red.

[What are phosphorites, where and how to look for them] Chto takoe  
fosfority, gde i kak ikh iskat'. Moskva, Gos.nauchno-tekhn.isd-vo  
lit-ry po geologii i okhrane neдр, 1960. 16 p. (MIRA 13:9)  
(Phosphorites) (Mineralogy, Determinative)

PUSTOVALOV, L.V., otv.red.; GIMMEL'FARB, B.M., red.; KRASHENINNIKOV,  
G.F., red.; SARKISIAN, S.G., red.; SKRDIUCHENKO, D.P., red.;  
TEODOROVICH, G.I., red.; SHVETSOV, M.S., red.; SMIRNOVA, Z.A.,  
red.isd-va; IVANOVA, A.G., tekhn.red.

[Problems of sedimentology; reports of Soviet geologists for  
the Sixth International Congress of Sedimentology] Voprosy sedi-  
mentologii; doklady sovetских geologov k VI Mezhdunarodnomu  
kongressu po sedimentologii. Moskva, Gos.nauchno-tekhn.isd-vo  
lit-ry po geol. i okhrane neдр, 1960. 215 p.

(MIRA 14:3)

1. International Congress of Sedimentology. 6th, Copenhagen,  
1960.

(Rocks, Sedimentary)

GIMMEL'FARB, B.M.

Comparison of the basic regularities in the location of phosphorus deposits in the U.S.S.R. and the Chinese People's Republic.  
Zakonom. razm. polezn. iskop. 5:434-463 '62. (MIRA 15:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gornokhimi-cheskogo syr'ya pri Gosudarstvennom komitet Soveta Ministrov SSSR po khimii.  
(China--Phosphorus) (Phosphorus)

GIMEL'FARB, B.M. (Leningrad)

Infinity of the universe. Fiz.v shkole 22 no.1:96-98 Ja-F '62.  
(Space and time) (MIRA 15:3)

GIMMEL'FARB, B.M.

Present status of and prospects for the development of raw material supply reserves of phosphate fertilizers in the U.S.S.R. Izv. AN SSSR. Ser.geol. 27 no.11:32-49 N '62. (MIRA 15:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gornokhimicheskogo syr'ya, g. Lyubertsy.  
(Phosphates)  
(Fertilizers and manures)

GIMMEL, FARB, B.M., doktor geol.-mineral.nauk

Agronomic ores and the problems of their geological study. Vest.  
AN SSSR 32 no.10:46-54 0 162. (MIRA 15:10)  
(Agricultural chemicals)

GIMMERL'FARB, Boris Mikhaylovich, doktor geol.-miner. nauk; SOROKO,  
Ya.I., red.; RAKITIN, I.T., tekhn. red.

[Fertilizing rocks] Kamni plodorodiia. Moskva, Izd-vo  
"Znanie," 1963. 39 p. (Novoe v zhizni, nauke, tekhnike.  
XII Seria: Geologiya i geografiya, no.15) (MIRA 16:8)  
(Fertilizing rocks)

GIMEL'FARB, B.M.; MITROPANOV, N.I.; PRICHELKIN, S.V.; STECHOVSKIY, L.I.

Exploiting phosphorite-bearing Karatau Basin. Min. prom. no.5:  
323-328 My '64. (MIRA 17:9)

**GIMMEL'FARB, Boris Mikhaylovich**

[Characteristics of the distribution of phosphorite deposits in the U.S.S.R. and their genetic classification] Zakonomernosti razmeshchenia mestorozhdenii fosforitov SSSR i ikh geneticheskaya klassifikatsiya. Moskva, Nedra, 1965. 306 p. (MIRA 18:8)

Mar 1947

Solar Phenomena  
Solar Radiation

"Report on the Current Cycle of Solar Activity," B. N. Gimmel'farb, 2 1/2 pp

"Tiroda" No 2

Short article describes the current activity of the solar cycle from the standpoint of Wolf's index. Wolf's number for 1945 and 1946 by months. Also gives the maximum Wolf's number for various periods dating back to 1837.2.

34782

JD

PA 16161

USSR/Solar Phenomena  
Spectrophotometry

May 1947

"All-Union Conference on Solar Investigation,"  
B. N. Gimmel'ferb, 5 pp

"Priroda" No 5

Conference held in Leningrad 16 - 19 Dec 1946.  
V. A. Krat (GAO) and V. N. Kucherova discussed  
spectrophotometric work; A. I. Lebedinskogo (IGU)  
work on magnetic poles in sunspots, in cooperation  
with L. Ye. Gurevich; I. S. Shklovskiy (GAISH)  
on ionization of metals in the corona; E. Ya.  
Bugoslav'skiy (GAISH) on the structure of the  
corona. V. V. Sharomov, N. M. Sytinskaya, M. N.

Gnevysheva, and M. S. Yegenson (GAO) were also  
among those attending.

16161

USSR/Physics  
Solar Phenomena  
Solar Radiation

APR 1947

"Expedition of the Academy of Science USSR for the Observation of the Total Solar Eclipse of 20 May 1947 in South America," B. N. Gimmel'farb, 5 pp

"Priroda" No 4

Full account of preparations for expedition and places visited: Reception in Brazil was favorable, except for some provocative articles in the fascist press. In Rosario many Slavs manifested lively interest in everything connected with the great land of socialism.

Comments on hostile attitude of Argentine authorities. Eclipse could not be observed in Aracha owing to clouds. Swedish, Canadian and Czech expeditions were likewise unfortunate.

78471

GIMMEL'FARB, B. N.

May 48

USSR/Physion  
Telescopes

"G. Dimitrov and D. Beker's 'Telescopes and Their  
Appurtenances,'" B. N. Gimmel'farb, 2 pp

"Priroda" No 5

Reviews book, originally published by Harvard Ob-  
servatory, chapter by chapter. Most of the un-  
favorable comments are directed at the translator.  
Published by Gostekhizdat, Moscow-Leningrad, 1947,  
307 pp, 15,000 copies printed, price 5 rubles,  
binding 2 rubles.

5/49T104

"Nature of 'Crecoycykar Myopia'," Priroda, No 6, 1943.

GIMMEL'FARB, B. N.

"Review of Fletcher Watson's Book 'Between the Planets', " Eireoda, No 7, 1948

5/497101

GIMMELFARB, B. N.

USSR/Physics

Astronomy  
Stellar Dynamics

Jul 48

"Universal Importance of Soviet Astronomy," B. N. Gimmel'farb, 5 pp

"Prilroda" No 7

Reports conference, held by Leningrad Division of All-Union Astr and Geodesic Soc 5-6 Mar 48, devoted to taking stock of Soviet contribution to world astronomy. Among papers read were: "Celestial Mechanics" by M. F. Subbotin, "Stellar Astronomy" by M. S. Evgenson, "Planets" by V. V. Sharanov,

5/497101  
Jul 48

USSR/Physics (Contd)

"Founders of Russian Astrophysics" by K. F. Ogorodnikov, "Soviet Astrometry" by A. A. Kemiro, and "Solar Physics" by V. A. Kravt.

5/497101

PA5/49T103

USSR/Physics  
Solar Phenomena

Jul 48

"Sunspots of Record Breaking Size," B. N. Gimmel'farb,  
1 p

"Priroda" No 7

The last 2 years were characterized by extreme solar activity, with an abundance of large sunspots. Describes sunspot first seen in Feb 46. By Mar 47, this sunspot area had grown to record size. Gives characteristics of the sunspot area at its maximum activity.

5/49T103

GIMMEL'FARB, B. N.

APPROVED FOR RELEASE: Thursday, September 26, 2002  
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CIA-RDP86-00513R000515110012-5

PA 9/49T102

USSR/Physics  
Astronomy  
Solar Phenomena

Oct 48

"Radio-Physical Investigations of the 20 May 1947  
Total Solar Eclipse," B. N. Gimmel'farb, 2 pp

"Priroda" No 10

Brief report of organization and operation of two-  
group expedition sent by AcadSci USSR to Brazil to  
conduct radio-physical observations of total solar  
eclipse.

~~SECRET~~

9/49T102

GIMMEL'FARB, B. N.

Nov 48 |

USSR/Physics

Astronomy

Magnetic Fields, Solar

"The Magnetism of Cosmic Bodies," B. N. Gimmel'farb,  
8 pp

"Priroda" No 11

Treats subject under following: (1) discovery and  
measurement of magnetic field of cosmic bodies,  
(2) magnetic field of sun, (3) magnetic field of  
stars, and (4) cosmogonic consequences and further  
generalizations.

23/49M03

"Review of P. Whipple's Book 'Earth, Sun, and Planets'," *Priveda*. No 1, 1949.

GIMMEL'FARB, B. N.

USSR/Physics  
Astronomy  
Biography

Feb 49

"In Memory of Elis Stryomgren (1870 - 1947),"  
B. N. Gimnel'farb, 1½ pp

"Priroda" No 2

Obituary notice of Svante Elis Stryomgren, famous  
Danish astronomer. He visited the USSR in 1946 and  
lectured at the State Astr Inst imeni Shternberg  
in Moscow.

37/49T107

GIMMEL, FARR, B. N.

"Review of B. Bok and F. Bok's 'The Milky Way'," (Eng.) *Isis*, No. 5, 1949.

GIMMEL'FARB, B. N.

"The Nearest Stars," Eriroda, No. 12, 1944.

GIMMEL, PAB, B. N.

"On the Regularities of the Sunspot Formation Activity," Iriroda, Vol. 39, No. 4,  
1950, p 43.

GIMMEL'FARB, B.N.

USSR/Astronomy - Sun (Corona)

Aug 50

"Photometer for Measuring the Brightness of the Sun's Corona," B. N. Gimmel'farb

"Priroda" No 8, pp 50, 51

Describes photometer used successfully for the 1st time in the USSR to observe the solar corona during eclipses in 1950.

219T53

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PA 174778

USSR/Physics - Light Filter

Jan 51

"Interferential and Interferential-Polarizational Light Filters," B. N. Gimmel'farb

"Prilroda" Vol XL, No 1, pp 16-23

Describes scheme for subject filters with silvered surfaces. Considers coeff of transmission tan vs wave length lambda of transmits. Various coeff of reflection R. States that Acad G. A. Shayn employs filters at Crimean Astrophys Obs to study interstellar matter. Describes

LC

USSR/Physics - Light Filter  
(Contd)

174778

Jan 51

Microphotograms of spectra taken with interference filters, schemes without metal reflecting layers, polarizational filter, etc.

174778

GIMMELFARB, B. N.

USSR/Astronomy - Aberration

Aug 51

"Aberration of Stars and Theory of Relativity,"  
B. N. Gimmelfarb

"Priroda" No 8, pp 28-30

Author derives from the formula of aberration the transformation formula of the time interval of the special theory of relativity, showing Lorentz' slowing of time. Also deduces the value of aberration coeff with relativistic correction. Cf. P. E. Wylie, "The Time-Coordinate Transformation of Relativity, Derived From the Circumstances of the Aberration of Starlight," Popular Astr, Vol 58, No 9, 1950, p 451.

221T50

"About the Diameter of Pluton," Nature, No. 7, July 1 52, p. 11.



1. GISEL PARD, B. N.
2. USSR (600)
4. Stars--Spectra
7. Explaining the constant of aberration as a function of the spectral class of a star, 30, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

GIMMEL'FARB, B. N.

USSR/Astronomy - Aberration

"Explanation of Stellar Aberration by Relativity Theory," B. N. Gimmel'farb

Usp Fiz Nauk, Vol 51, No 1, pp 99-114

Reviews several viewpoints leading to controversies on origin of aberration. Compares classical and relativistic theories, which are particularly divergent in their concepts of time and simultaneity.

263T80

GIMMEL'FARB, B.N. (Leningrad)

On the problem of the east-west asymmetry of the distribution of  
developing and disappearing groups of sun spots. Astron. tsir.  
no.159:32 My'55. (MLRA 8:12)

(Sunspots)

GIMMEL'FARB, B.N.(Leningrad)

~~CONFIDENTIAL~~

Some errors connected with the explanation of the aberration of stars  
in the theory of relativity. *Bul.VAGO* no.17:14-21 '56. (MIRA 9:9)  
(Aberration) (Relativity (Physics))

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**RADZIYEVSKIY, V.V.: GIMMEL'FARB, B.N.**

Imaginary paradoxes of astronomical aberration. *Bul. VAGO* no.18:9-  
12 '56. (MLRA 10:1)

(Aberration)

GIMMEL'FAEB, B.N.

BRYUKHANOV, Valentin Andreyevich [deceased]; GIMMEL'FAEB, B.N., red.;  
RUDOV, A.G., red.; TRESKINA, T.N., red. izd-va; BYKOVA, G.N.,  
tekhn.red.

[Humanity's great step; the problem of interplanetary flights  
and atheism] Velikii shag chelovechestva; problema mezhplanet-  
nykh poletov i ateizm. [Arkhangel'sk] Arkhangel'skoe knizhnoe  
izd-vo, 1957. 109 p. (MIRA 11:5)  
(Interplanetary voyages)

GIMMEL'FARB, B.N.

Rotation period of Venus. Priroda 46 no.3:85-87 Mr '57.  
(MLRA 10:3)

1. Arkhangel'skiy gosudarstvennyy pedagogicheskiy institut.  
(Venus (Planet))

GIMMEL'FARB, B.H.

Hypothesis of active volcanism on Venus. Astron. tsir. no.176:22-  
23 Ja '57. (MIRA 10:6)

1. Arkhangel'skiy gosudarstvennyy pedagogicheskiy institut.  
(Venus (Planet)) (Volcanoes)

89(5)

PHASE I BOOK REPRODUCTION 804/3312

Akademiya nauk SSSR. Astronomicheskii soviet.

Spyallaton' stantsiy opticheskogo nablyudeniya iskusstvennykh sputnikov zemli, no. 7 (Bulletin of Stations for Optical Observation of Artificial Earth Satellites, no. 7) Moscow, 1959. 27 p. 500 copies printed.

Redy. RM.: Ye. E. Glazis; Editorial Secretary: G. A. Severnaya

PURPOSE: The book is intended for scientists engaged in earth-satellite research and for students of astronomy.

CONTENTS: The collection of articles summarizes the results of observations of the Soviet earth satellites. The treatment includes: methods of observation, moments of maximum visibility, devices and cameras used, tables with data. There are numerous figures and some Soviet references. Each article in this collection is accompanied by an English annotation.

Shmel'ferb, N. R., and V. Arifonov. Observations of Brightness Variations of the "Sputnik" of the Third Soviet Satellite 18

The study was conducted at the satellite-observation station attached to the State Pedagogical Institute Iosel' Kosmosov at Arkhangel'sk. Six passages of the third Sputnik were recorded, in October and November of 1958, with the aim of establishing the mean period of brightness variations. Moments of maximum brightness were determined by a method suggested by V. M. Origorevskiy. A magnetophone used for this purpose and the method used are described. The method was improved by A. A. Chirtsov from Arkhangel'sk.

Khaykharish, N. Y. Computer Attached to the AT-1 Telescope 19  
The article describes an automatic computer attached to the AT-1 telescope. The apparatus is used for determining equatorial coordinates of Sputniks. The tests were conducted at the Dnepropetrovsk satellite-observation station of the local state university, where the apparatus was designed. An annotation is enclosed, signed by N. M. Mikhail'son, a senior scientific staff member of the Main Astronomical Observatory, Leningrad-Pulkovo, in which he suggests an improvement in the method of using the described apparatus.

Bogoslavskaya, Ye. Ya. Special Satellite Plate Holder 22  
A plate holder is described for obtaining time marks on the satellite image by means of a moving grating placed in front of the plate. The plate was designed by the author, in collaboration with Engineer N. I. Yakovlev, at the State Astronomical Institute Iosel' P. K. Shatarnberg (University of Moscow), and tested by the author in collaboration with I. A. Khassov.

PHASE I BOOK EXPLOITATION

SOV/5570

Akademiya nauk SSSR. Astronomicheskiy sovet

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PURPOSE: This bulletin is intended for scientists and engineers concerned with  
optical tracking of artificial satellites.

COVERAGE: This bulletin contains short articles on optical equipment, techniques,  
and results of observations of artificial earth satellites. Also covered are  
the precision of satellite photography and the equations of motion of satellites.  
No personalities are mentioned. There are no references.

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